NAVSUP
NAVAL SUPPLY SYSTEMS COMMAND

DDX Logistics Support Working Group

UNITED STATES NAVY SERIAL NUMBER TRACKING
SNT

Ready. Resourceful. Responsive!

LCDR Matt Mullins
NAVSUP 4B1I
14 NOV 2002

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NAVAL SUPPLY SYSTEMS COMMAND

Outline

UNITED STATES NAVY SERIAL NUMBER TRACKING
SNT

- Overview
- NAVSUP/NAVAIR Implementation
- Demonstrations
- System Status – Web Site Examples
- SIM/SNT Parallel Goals
- Contract Language – Package/Product
- SNT Implemented in Legacy System
- SNT Initiatives / Future
- Summary

Overview

Definition: ***Closed-loop, cradle-to-grave tracking maintenance critical, serialized components, prov asset visibility and material status, and enabled b automatic identification technology***

Major Benefits:

Maintenance

- Identify Maintenance Deficiencies
- Accurately Measure Reliability
- Accurate Record Configuration
- Identify Latent Defects
- Determine Training Requirements
- Assist Engineering Investigations

Supply

- Assess Repair Turn Around Time
- Decrease Misidentification and Los
- Warranty Management
- Predict Parts Requirements
- Better Procurement Decisions
- Measure Reliability
- Achieve Total Asset Visibility

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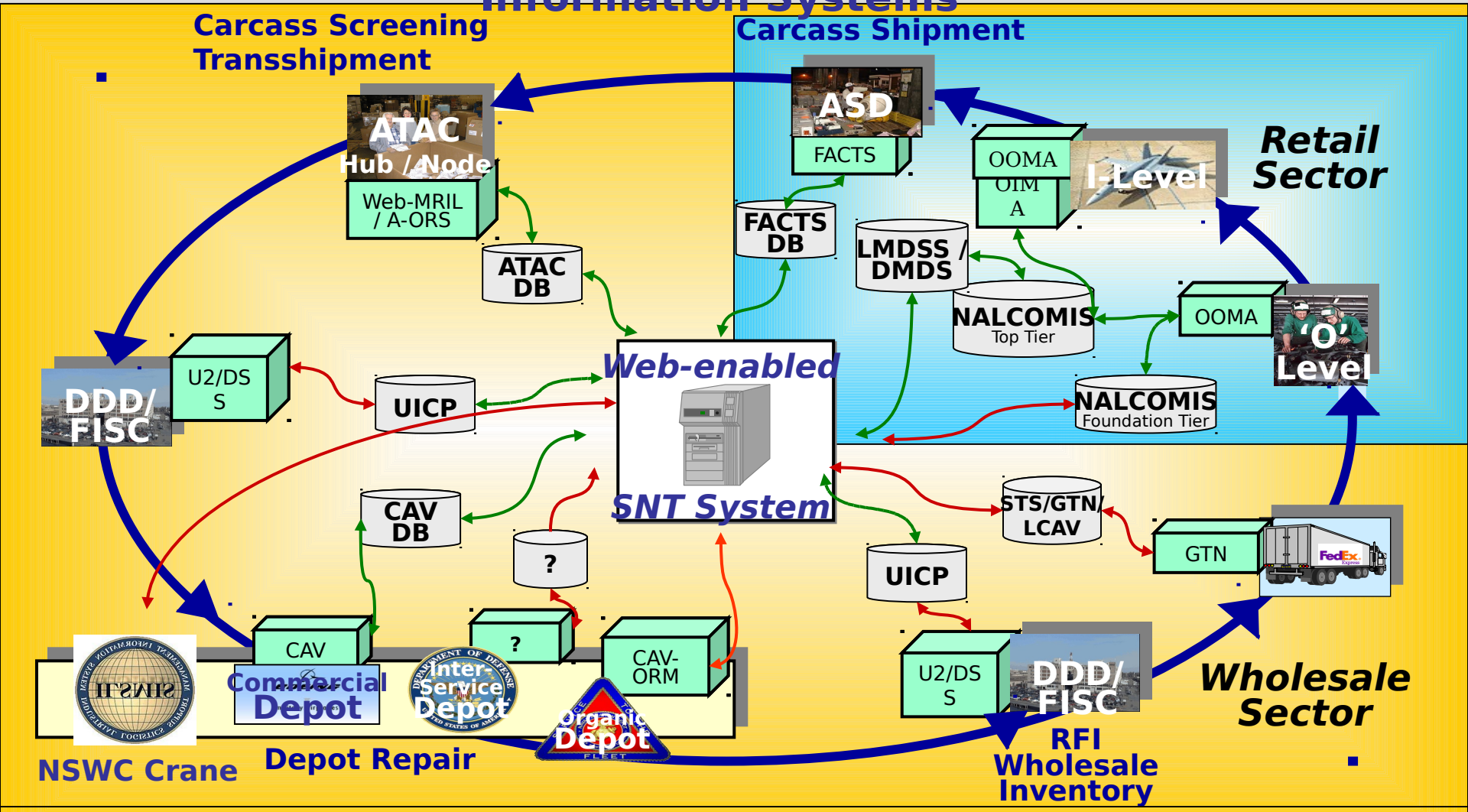
Aviation Asset/Information Flow

UNITED STATES NAVY SERIAL NUMBER TRACKING
SNT

Overview

Information Systems



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Shipboard Asset/Information Flow

UNITED STATES NAVY SERIAL NUMBER TRACKING
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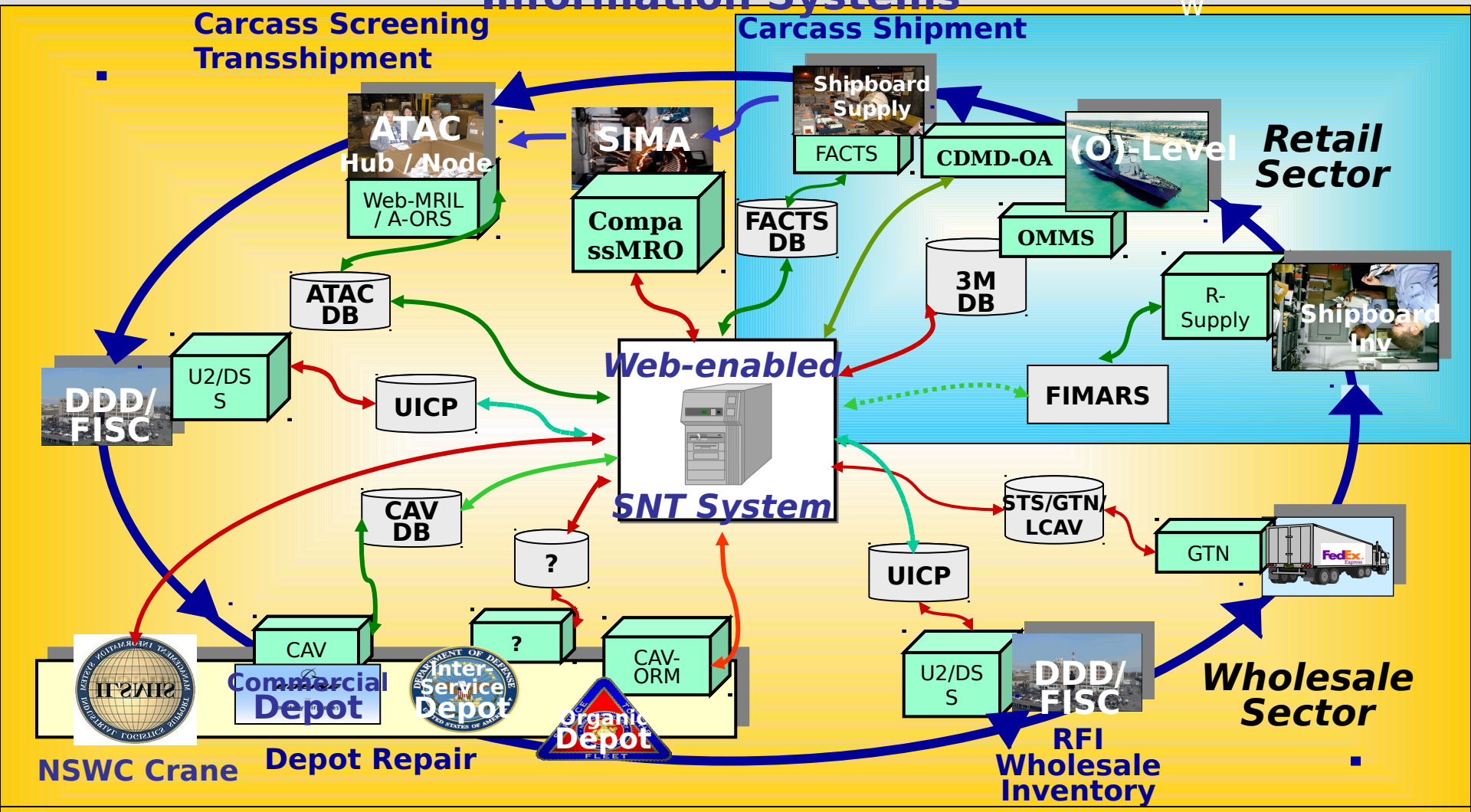
Overview

Information Systems



= Info Flow - SN Info Flow – No SN Not connected = Asset Flow

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CMB/Bar Code Overview

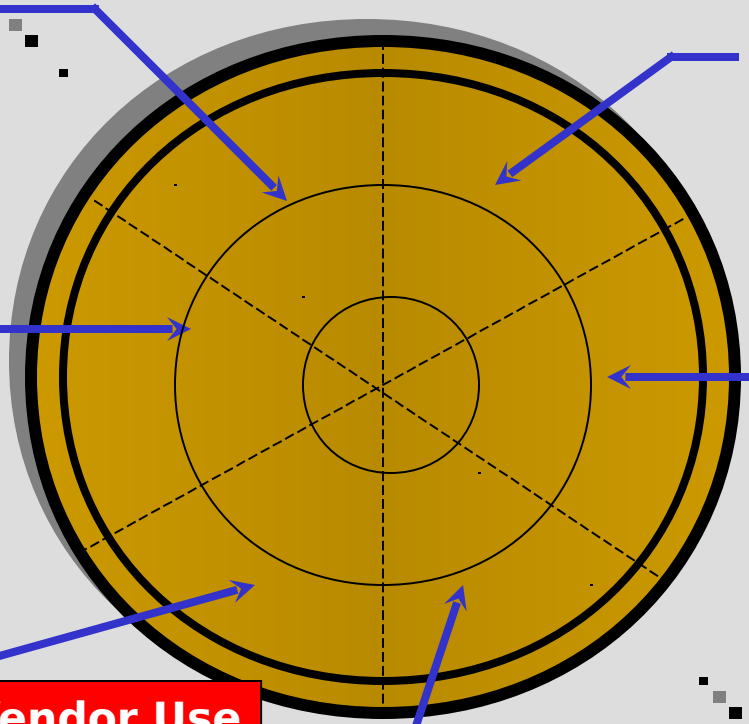
P/N 50-100-01
S/N 0152
MFR K0656

Nameplate Data

Computer, Air Data CPU-175/A
P/N 50-100-01 SERNO 0152
MFR K0656 CONTR F33657-85C-0025

Scheduled Removal Component Card*

Contact Memory Button CMB



Maintenance History**

Warranty Data

CMB Stats:
- **2k,8k,32k**
- **~$7-$13 each**
- **Read/Write**
- **Dual CMB/BC Reader $1200**

*Electronic Logset In Aviation

Available for Vendor Use

Available for Future Navy Use

**UseTBD within aviation maintenance

SUPPLY - AVIATION 5 Year Plan

T/M/S	Total Number Aircraft	Components per Aircraft	Total Number of Components (W/ 25% spares)	Total CMB Cost	Contractor Installation Cost	Total Engineering Document Cost	Total AIT Cost
MH-53E	46	170	9,775	$152,783.25	$272,412.00	$136,000.00	$605,932.55
CH-53E	164	170	34,850	$544,705.50	$817,236.00	$136,000.00	$1,597,820.10
CH-53D	44	104	5,720	$89,403.60	$272,412.00	$83,200.00	$486,995.50
MH-60	342	300	128,250	$2,004,547.50	$3,268,944.00	$240,000.00	$5,665,423.90
[illegible]	111	400	55,500	$867,465.00	$708,271.20	$320,000.00	$1,712,510.98
F6A/B	60	469	9,380	$146,609.40	$163,447.20	$375,200.00	$1,[illegible]706
[illegible]	394	196	47,530	$742,893.90	$898,959.60	$156,800.00	$1,757,972.50
[illegible]	126	132	20,790	$324,947.70	$599,306.40	$105,600.00	$1,[illegible]96
[illegible]46E	280	70	20,125	$314,553.75	$926,200.80	$56,000.00	$1,383,946.57
CH/HH/UH-46	79	70	6,913	$108,042.38	$435,859.20	$56,000.00	$609,546.56
EA-6B	124	144	22,320	$348,861.60	$1,035,165.60	$115,200.00	$1,659,147.94
MV/CV/HV-22	458	203	116,218	$1,816,479.53	$3,922,732.80	$162,400.00	$6,254,890.39
AV-8	172	921	198,015	$3,094,974.45	$871,718.40	$736,800.00	$4,899,087.53
F-14A/B/D	193	200	48,250	$754,147.50	$871,718.40	$160,000.00	$1,940,564.86
P-3's	264	75	24,750	$386,842.50	$1,797,919.20	$60,000.00	$2,452,987.68
Cargo	295	175	64,531	$1,008,623.44	$2,724,120.00	$140,000.00	$4,297,527.69
Trainers	515	129	83,044	$1,297,973.81	$817,236.00	$103,200.00	$2,399,150.46
E-2C	75	147	13,594	$212,470.31	$1,525,507.20	$116,000.00	$1,969,874.10
C-2A	38	145	6,888	$107,651.63	$217,929.60	$116,000.00	$[illegible],500.85
F-18ABCD	745	200	186,250	$2,911,087.50	$4,794,451.20	$160,000.00	$8,[illegible],383.34
F-18EF	548	240	164,400	$2,569,572.00	$2,179,296.00	$192,000.00	$5,[illegible],021.20
Misc Support							$2,8[illegible],000.00
Total			1,267,091	$19,804,636.24	$29,120,842.80	$3,726,400.00	$58,211,345.83

Total # of Items marked 1,267,091

SNT Implementation Cost = $58,211,346

Demonstrations

H-60/HSL-40:

- Demonstrate O-OMA AIT interfaces
- Squadron hardware requirements/dat
- Track 25 marked components
- Demo completed June 2000

SCADC

- SNT included in PBL Contract
- Loading of Serial Number into CAV
- BAE Assistance

SNT Functionality in Commercial Depot

Demonstrations

SQQ-32 SONAR:

- Ships selected: MCM's/MHC's
- 13 Components Marked
- Keyport/Ingleside/Raytheon/Shipboa
- Objective: Retrograde Tracking

HOSS Camera (AN/SXY-1):

- NAVICP LECP
- Contract Language and Drawing includes CMB
- SNT in New Production Environm
- Delivery of first cameras: NOV 2

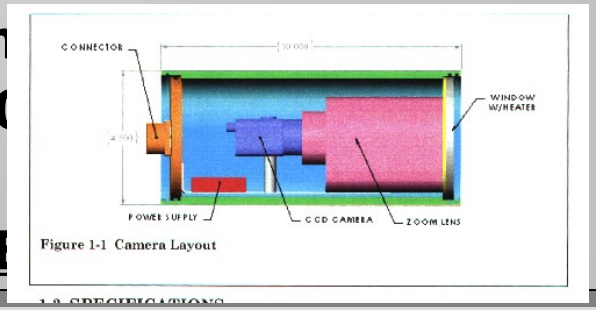


Figure 1-1 Camera Layout

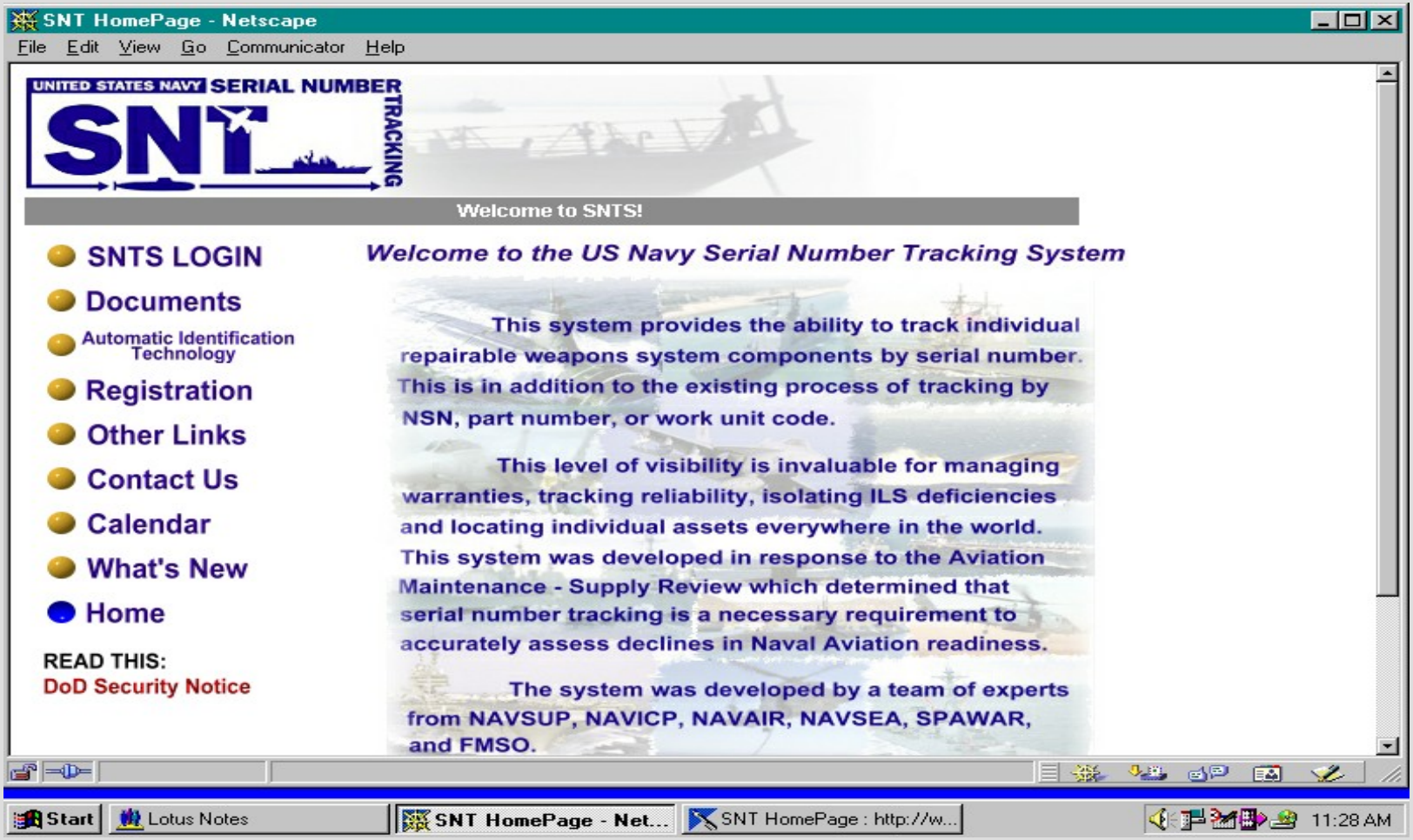
CAMS II A5 MODULE on SUBMARINE

www.snt.navsup.navy.mil
New Homepage

NAVAL SUPPLY SYSTEMS COMMAND

UNITED STATES NAVY SERIAL NUMBER TRACKING SNT

System Status


SNT HomePage - Netscape
File Edit View Go Communicator Help
UNITED STATES NAVY SERIAL NUMBER TRACKING SNT
Welcome to SNTS!
SNTS LOGIN
Documents
Automatic Identification Technology
Registration
Other Links
Contact Us
Calendar
What's New
Home
READ THIS:
DoD Security Notice
Welcome to the US Navy Serial Number Tracking System
This system provides the ability to track individual repairable weapons system components by serial number. This is in addition to the existing process of tracking by NSN, part number, or work unit code.
This level of visibility is invaluable for managing warranties, tracking reliability, isolating ILS deficiencies and locating individual assets everywhere in the world. This system was developed in response to the Aviation Maintenance - Supply Review which determined that serial number tracking is a necessary requirement to accurately assess declines in Naval Aviation readiness.
The system was developed by a team of experts from NAVSUP, NAVICP, NAVAIR, NAVSEA, SPAWAR, and FMSO.
Start
Lotus Notes
SNT HomePage - Net...
SNT HomePage : http://w...
11:28 AM

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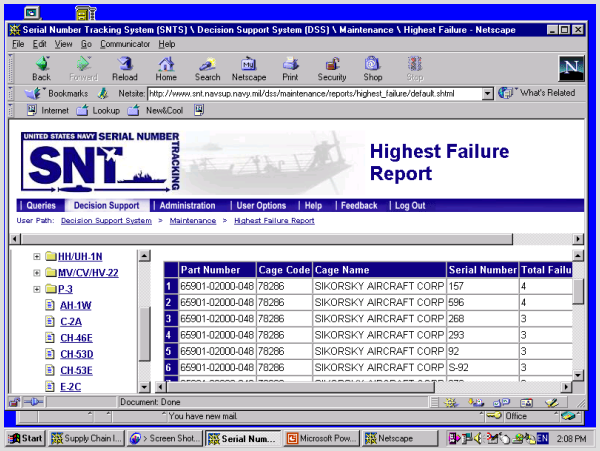
SNT WEB PAGE QUERY RESULTS

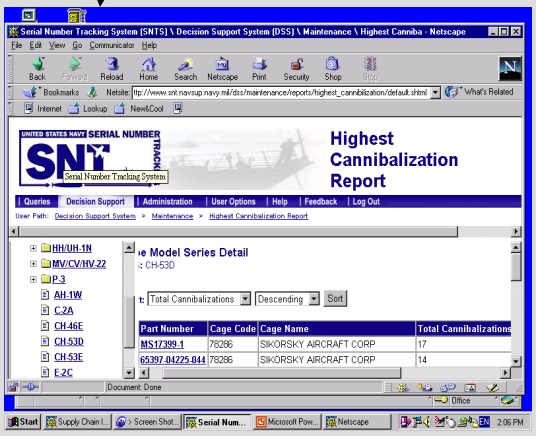
UNITED STATES NAVY SERIAL NUMBER TRACKING SNT

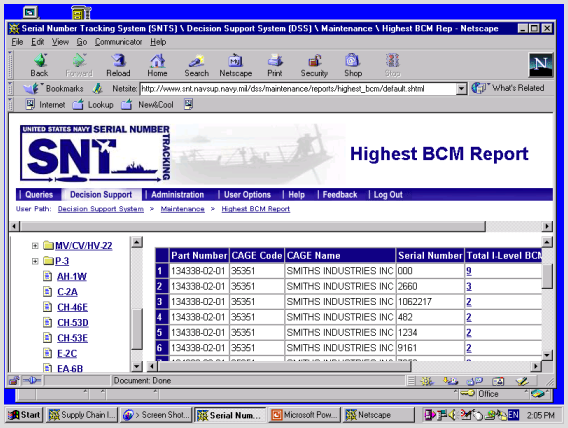
System Status

Generate, Collect & Analyze Maintenance Data

SNT Existing Reports


Serial Number Tracking System (SNTS) \ Decision Support System (DSS) \ Maintenance \ Highest Failure - Netscape
Highest Failure Report
Queries | Decision Support | Administration | User Options | Help | Feedback | Log Out
Part Number | Cage Code | Cage Name | Serial Number | Total Failu
1 | 65901-02000-048 | 78286 | SIKORSKY AIRCRAFT CORP | 157 | 4
2 | 65901-02000-048 | 78286 | SIKORSKY AIRCRAFT CORP | 596 | 4
3 | 65901-02000-048 | 78286 | SIKORSKY AIRCRAFT CORP | 268 | 3
4 | 65901-02000-048 | 78286 | SIKORSKY AIRCRAFT CORP | 293 | 3
5 | 65901-02000-048 | 78286 | SIKORSKY AIRCRAFT CORP | 92 | 3
6 | 65901-02000-048 | 78286 | SIKORSKY AIRCRAFT CORP | S-92 | 3


Serial Number Tracking System (SNTS) \ Decision Support System (DSS) \ Maintenance \ Highest Canniba - Netscape
Highest Cannibalization Report
Queries | Decision Support | Administration | User Options | Help | Feedback | Log Out
Part Number | Cage Code | Cage Name | Total Cannibalizations
MS17399-1 | 78286 | SIKORSKY AIRCRAFT CORP | 17
65397-04225-044 | 78286 | SIKORSKY AIRCRAFT CORP | 14


Serial Number Tracking System (SNTS) \ Decision Support System (DSS) \ Maintenance \ Highest BCM Rep - Netscape
Highest BCM Report
Queries | Decision Support | Administration | User Options | Help | Feedback | Log Out
Part Number | CAGE Code | CAGE Name | Serial Number | Total I-Level BCM
1 | 134338-02-01 | 35351 | SMITHS INDUSTRIES INC | 000 | 9
2 | 134338-02-01 | 35351 | SMITHS INDUSTRIES INC | 2660 | 3
3 | 134338-02-01 | 35351 | SMITHS INDUSTRIES INC | 1062217 | 2
4 | 134338-02-01 | 35351 | SMITHS INDUSTRIES INC | 482 | 2
5 | 134338-02-01 | 35351 | SMITHS INDUSTRIES INC | 1234 | 2
6 | 134338-02-01 | 35351 | SMITHS INDUSTRIES INC | 9161 | 2

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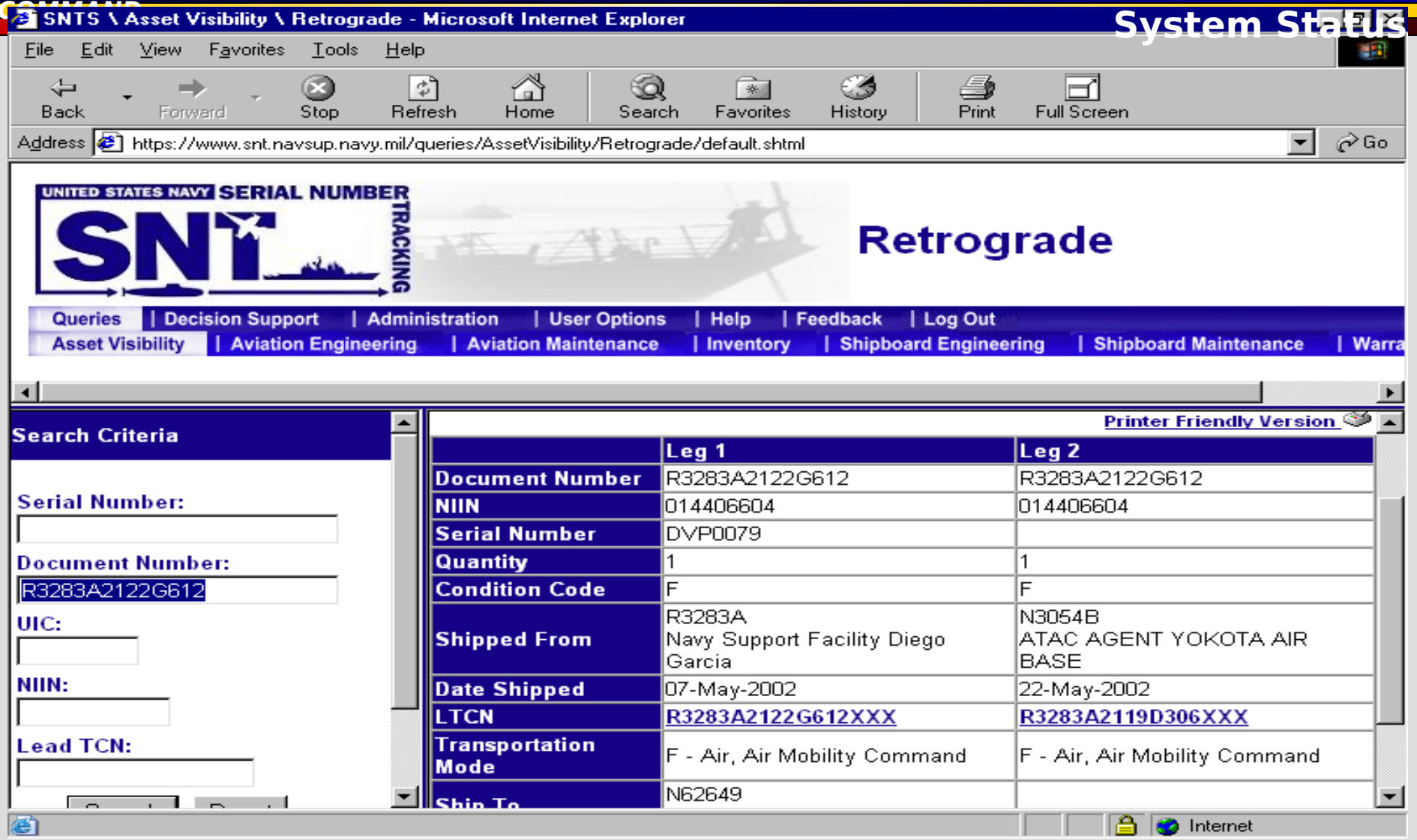
SNT WEB PAGE QUERY RESULTS

UNITED STATES NAVY SERIAL NUMBER TRACKING
SNT

System Status



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SIM / SNT Parallel Goals

UNITED STATES NAVY SERIAL NUMBER TRACKING SNT

UNITED STATES NAVY SERIAL NUMBER TRACKING SNT

Complements

DRID 54

Optimize Logistics Processes to Minimize Customer Wait Time (CWT) using Variance Based Metrics	Customer Confidence In a Simplified Priority System With Time Definite Delivery	Total Asset Visibility Through Use of AIT, Shared Data Environment and Other Applications	Real-Time, Actionable, Web-Based Logistics Information Systems
FY02	FY02	FY04	FY04

- SUPER REG
- SIM Directive
- ADC 44
- PDC 83

Supply Maintenance Aviation Reengineering Team
SMART
ERP
NAVSUP ★ NAVAIR

Package Marking

Contract Language

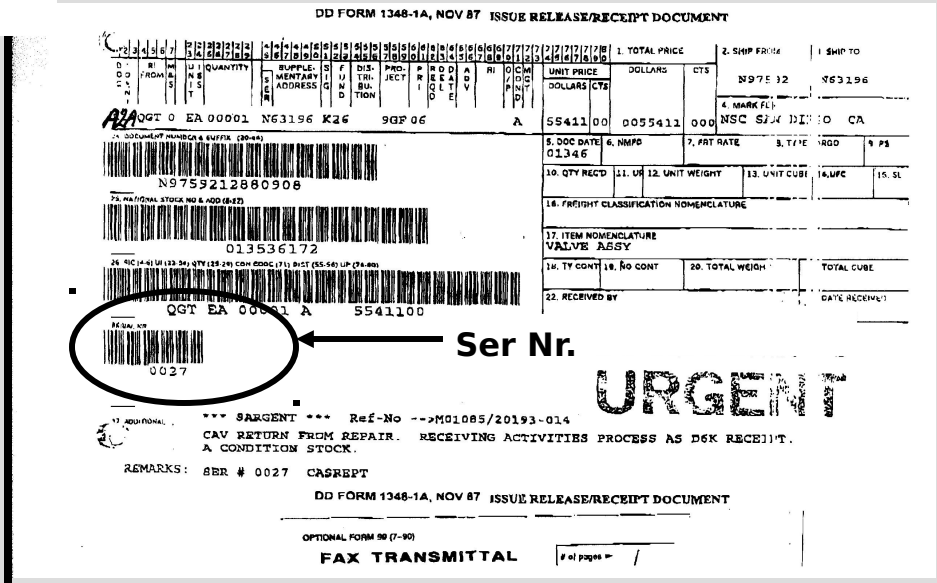
All Unit packs will consist of a 2D PDF-417 bar code label. Labels shall contain the following information: CAGE, Part Number, Serial Number, NSN, Contract Number, Nomenclature, Unit of Issue and Quantity. Labels shall be applied in accordance with the requirements of MIL-STD-129M, paragraph 4.5.2.2.

Package marking

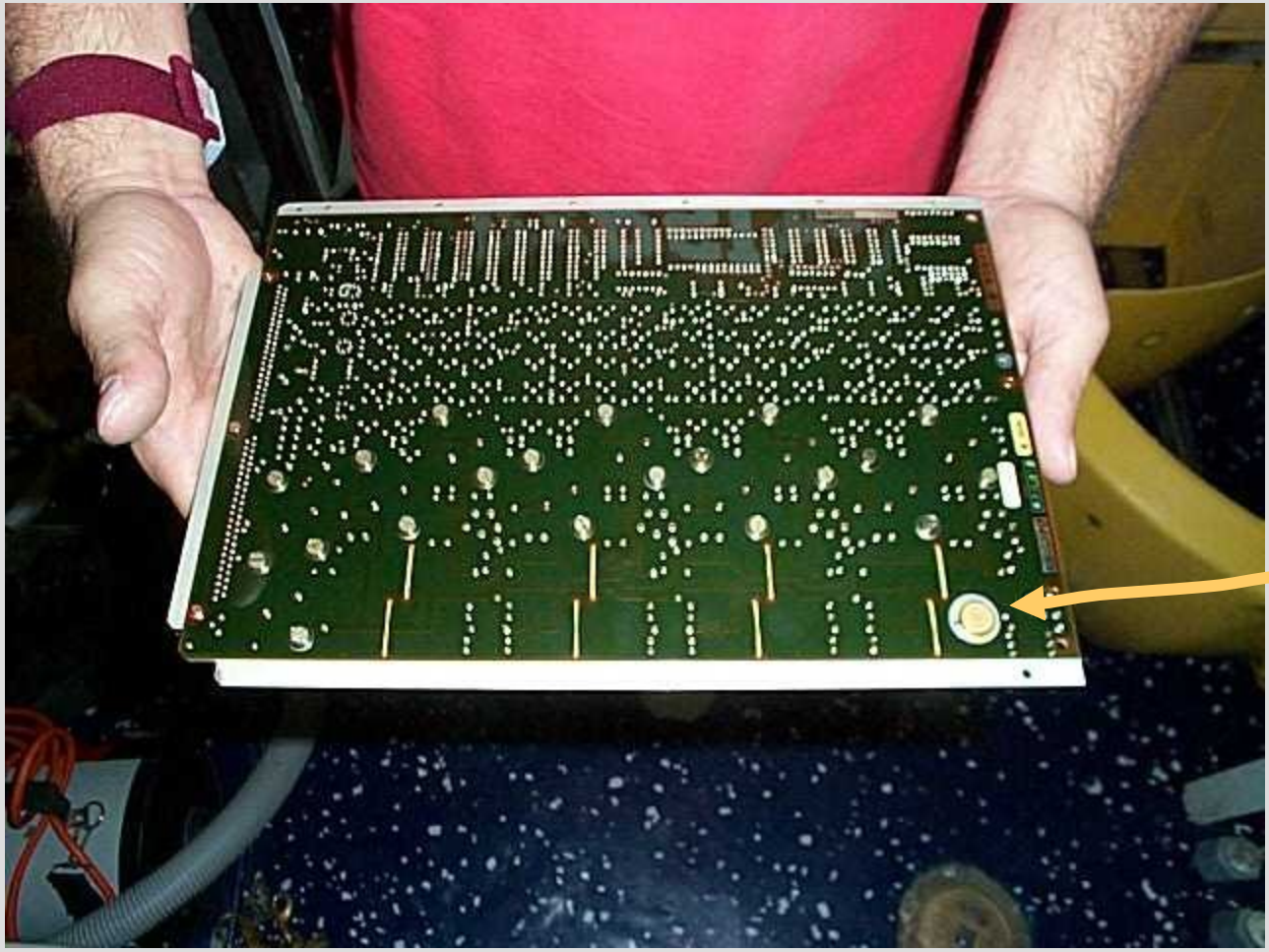
PDF417 2D

Cage: 02059
PN:102770-351
Ser: 6694
NSN 7025011415888
CONT: N00104-98-T-0023
Name: Magnetic Tape
U/I: EA
QTY: 1

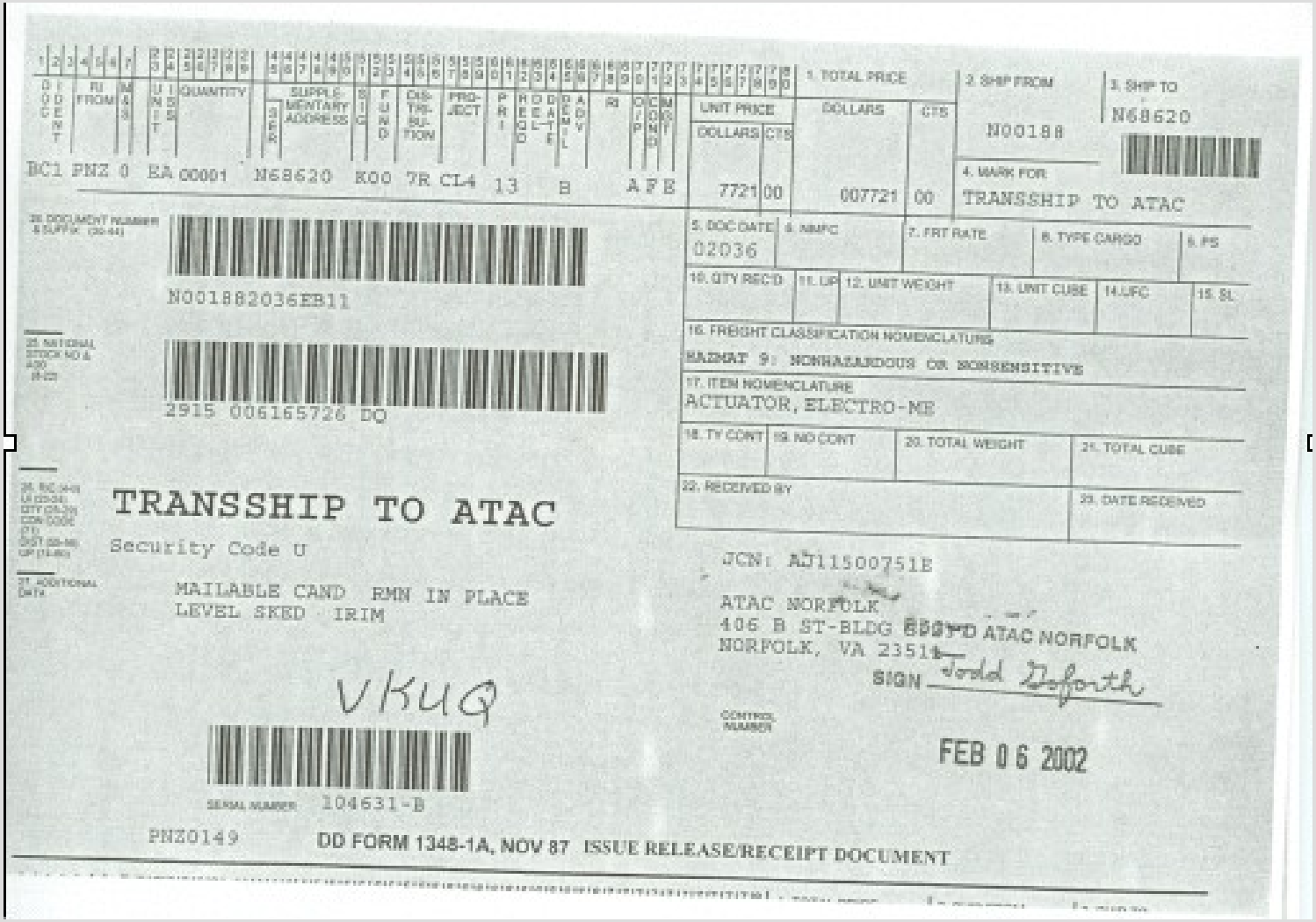
Invoices



Product Marking



Retrograde from Customer



BC1 PNZ 0 EA 00001 N68620 K00 7R CL4 13 B A F E

7721 00 007721 00

1. TOTAL PRICE
2. SHIP FROM N00188
3. SHIP TO N68620
4. MARK FOR TRANSSHIP TO ATAC

N001882036EB11

2915 006165726 DQ

5. DOC DATE 02036

16. FREIGHT CLASSIFICATION NOMENCLATURE
HAZMAT 9: NONHAZARDOUS OR NONSENSITIVE

17. ITEM NOMENCLATURE
ACTUATOR, ELECTRO-ME

TRANSSHIP TO ATAC

Security Code U

MAILABLE CAND RMN IN PLACE
LEVEL SKED IRIM

JCN: AJ11500751E

ATAC NORFOLK
406 B ST-BLDG 6[illegible] ATAC NORFOLK
NORFOLK, VA 2351[illegible]
SIGN Todd Dofforth

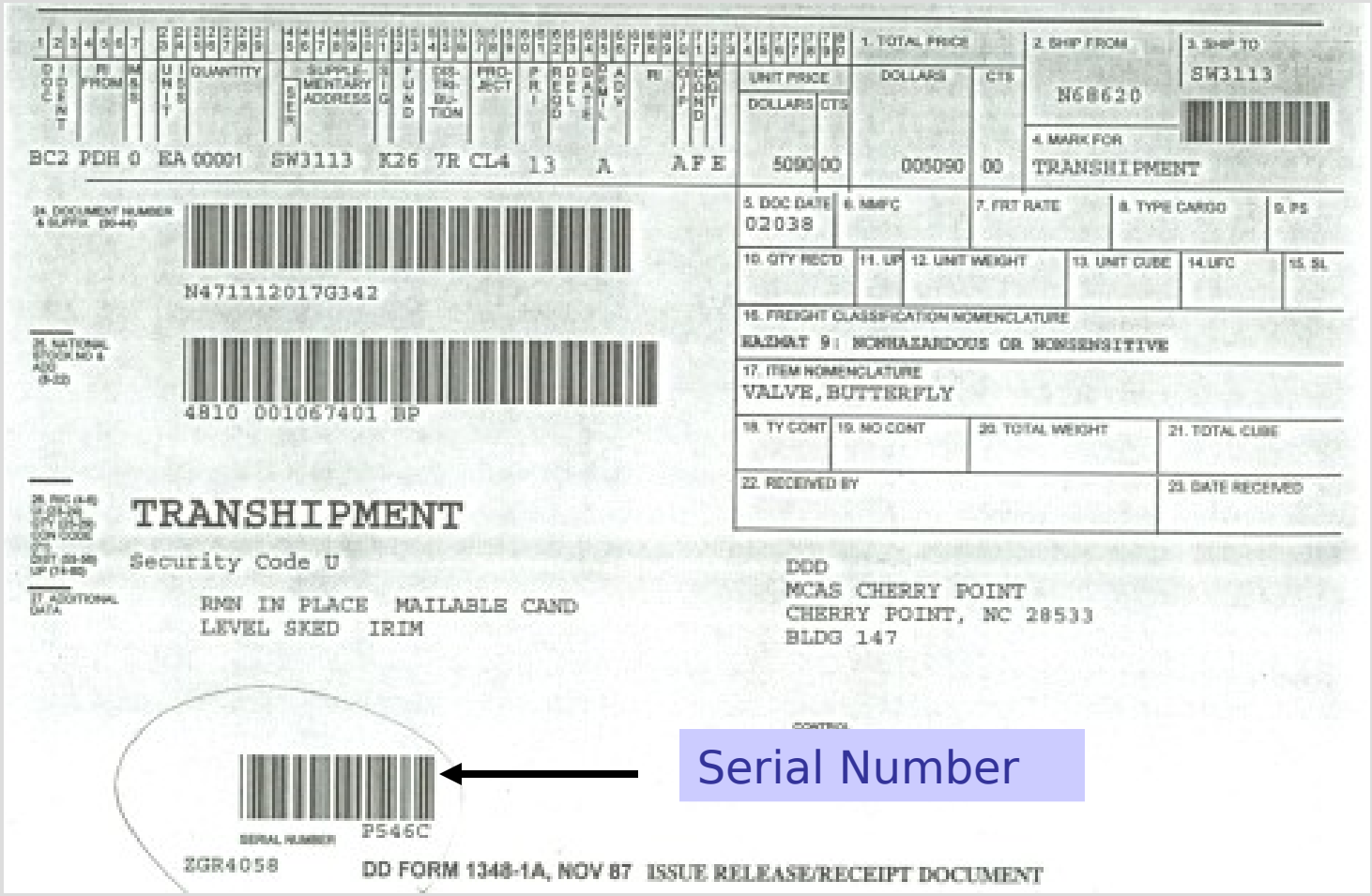
FEB 0 6 2002

VKUQ

SERIAL NUMBER 104631-B

PNZ0149 DD FORM 1348-1A, NOV 87 ISSUE RELEASE/RECEIPT DOCUMENT

Retrograde to DD



Serial Number

SNT INITIATIVES

- **SMART Transportation Solution**
- **LCAV and other databases to access**
- **SNT Implementation steps submitted to NAVSEA (04153)**
- **Marking of Wholesale Stock (DD) items - work underway**
  - ***Reporting of items in DD warehouse***

Wholesale System Reporting S/N

Future

Effective JAN 03
DSS Reports SN of Selected Items For Receipts/ Issues

Web-enabled

SNT System

SNT WEB Site Accesses Navy Repository

Navy Repository

To Navy Repository

New Construction SNT/AIT Considerations

- AIT Product Marking – Nameplate Data –
- Contract Language
  - Product Marking – MILSTD 130
  - Package Marking – MILSTD 129
- PDF 417 2D OR CMB
- Standardization – ISO 15418/15434
- Interfacing with other systems (example Supp
  Maintenance systems)

Nameplate Data

From This

G.E.C. MARCONI AVIONICS LTD
CMPTR< AIRDATA CPU175/A
PN 50-100-02 MFG K0656
DSGNACT K0656
NSN 6605-00-010-4716
CONTR F34601-95-C-0137
Ser NR K0656-345198

To This

G.E.C. MARCONI AVIONICS LTD
CMPTR< AIRDATA CPU175/A
PN 50-100-02 MFG K0656
DSGNACT K0656
NSN 6605-00-010-4716
CONTR F34601-95-C-0137
Ser NR K0656-345198

G.E.C. MARCONI AVIONICS LTD
CMPTR< AIRDATA CPU175/A
PN 50-100-02 MFG K0656
DSGNACT K0656
NSN 6605-00-010-4716
CONTR F34601-95-C-0137
Ser NR K0656-345198

SUMMARY

- Program well underway
- NAVAIR Revised Implementation Plan in January 02
  - Parts marking by TMS underway
- SNTS Web Application on line
- SNT consistent with DRID 54, ERP, STS
- SNT: Supports DOD's SIM Initiative
- New Program (DDX) Influence

Points of Contact

http://www.snt.navsup.navy.mil

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